

Title (en)
IMAGE PICKUP DEVICE

Title (de)
BILDAUFNAHMEVORRICHTUNG

Title (fr)
DISPOSITIF DE CAPTURE D'IMAGE

Publication
EP 2928183 A4 20160601 (EN)

Application
EP 13859464 A 20131126

Priority
• JP 2012261859 A 20121130
• JP 2013081735 W 20131126

Abstract (en)
[origin: EP2928183A1] In an image pickup device which uses infrared, there are cases where, for example, if the infrared wavelength is mixed into the signal processing of the colors of visible light, the color balance changes and color reproducibility cannot be correctly reproduced. The present invention provides an image pickup device provided with the following: an image pickup section that picks up an image of a subject and that is sensitive to at least the red range, green range, and blue range of visible light, and the infrared range; an extraction region processing section that sets regions in an image picked up by the image pickup section; an infrared extraction processing section that extracts infrared range signal information from each of the regions of the image that were set by the extraction region processing section; a visible light extraction processing section that extracts visible light range signal information from each of the regions of the image that were set by the extraction region processing section; a white balance processing section that conducts white balance processing on the image using a prescribed color gain; and a system control section that controls the white balance processing section. The image pickup device is characterized in that the system control section, in accordance with the infrared signal information and visible light information extracted from each of the regions of the image, performs control so that the color gain of the white balance processing section is a prescribed value.

IPC 8 full level
H04N 9/04 (2006.01); **H04N 5/33** (2006.01); **H04N 9/73** (2006.01); **H04N 9/77** (2006.01)

CPC (source: EP US)
H04N 9/77 (2013.01 - US); **H04N 23/11** (2023.01 - EP US); **H04N 23/84** (2023.01 - EP US); **H04N 23/88** (2023.01 - EP US);
H04N 25/131 (2023.01 - EP)

Citation (search report)
• [XYI] JP 2004064468 A 20040226 - FUJI PHOTO FILM CO LTD
• [IY] US 2008049115 A1 20080228 - OHYAMA TATSUSHI [JP], et al
• [IA] US 2005133690 A1 20050623 - HIGASHITSUTSUMI YOSHIHITO [JP]
• [A] JP 2010161459 A 20100722 - OLYMPUS CORP
• See also references of WO 2014084199A1

Cited by
EP3301911A1; CN106162136A; GB2527674A; GB2527674B; US9402063B2

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2928183 A1 20151007; **EP 2928183 A4 20160601**; **EP 2928183 B1 20191016**; JP 2014107852 A 20140609; JP 6029954 B2 20161124;
US 2015312541 A1 20151029; WO 2014084199 A1 20140605

DOCDB simple family (application)
EP 13859464 A 20131126; JP 2012261859 A 20121130; JP 2013081735 W 20131126; US 201314648500 A 20131126